

Title (en)  
METHOD AND APPARATUS FOR PREDICTING WORK OF BREATHING

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR VORHERSAGE DER ATEMTÄTIGKEIT

Title (fr)  
PROCÉDÉ ET APPAREIL DE PRÉDICTION DU TRAVAIL RESPIRATOIRE

Publication  
**EP 2816952 A1 20141231 (EN)**

Application  
**EP 13751401 A 20130220**

Priority

- US 201213400371 A 20120220
- US 2013026876 W 20130220

Abstract (en)  
[origin: WO2013126417A1] A method of creating a noninvasive predictor of both physiologic and imposed patient effort of breathing from airway pressure and flow sensors attached to the patient using an adaptive mathematical model. The patient effort is commonly measured via work of breathing, power of breathing, or pressure-time product of esophageal pressure and is important for properly adjusting ventilatory support for spontaneously breathing patients. The method of calculating this noninvasive predictor is based on linear or non-linear calculations using multiple parameters derived from the above-mentioned sensors.

IPC 8 full level  
**A61B 5/08** (2006.01); **A61B 5/087** (2006.01); **A61B 5/091** (2006.01)

CPC (source: EP)  
**A61B 5/0803** (2013.01); **A61B 5/087** (2013.01); **A61B 5/093** (2013.01); **A61M 16/026** (2017.07); **A61M 2016/0021** (2013.01); **A61M 2016/0027** (2013.01); **A61M 2016/0036** (2013.01); **A61M 2016/103** (2013.01); **A61M 2205/15** (2013.01); **A61M 2230/205** (2013.01); **A61M 2230/432** (2013.01); **A61M 2230/46** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2013126417 A1 20130829**; BR 112014019284 A8 20170711; BR 112014019284 A8 20210518; CA 2861505 A1 20130829; CA 2861505 C 20190820; CN 104135925 A 20141105; CN 104135925 B 20161012; EP 2816952 A1 20141231; EP 2816952 A4 20150624; EP 2816952 B1 20220803

DOCDB simple family (application)  
**US 2013026876 W 20130220**; BR 112014019284 A 20130220; BR 112014019284 D 20130220; CA 2861505 A 20130220; CN 201380010031 A 20130220; EP 13751401 A 20130220